

PCT REQUEST

Original (for SUBMISSION)

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.163)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	126457.01802
I	Title of Invention	POTTED EXCHANGE DEVICES AND METHODS OF MAKING
II	Applicant	
II-1	This person is	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	MYKROLIS CORPORATION
II-5	Address	129 Concord Road Billerica, MA 01821 United States of America
II-6	State of nationality	US
II-7	State of residence	US
II-8	Telephone No.	(978) 436-6500
II-9	Facsimile No.	(978) 436-6739
III-1	Applicant and/or inventor	
III-1-1	This person is	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	DOH, Cha, P.
III-1-5	Address	43 Atkinson Lane Sudbury, MA 01776 United States of America
III-1-6	State of nationality	TW
III-1-7	State of residence	US

PCT REQUEST

Original (for SUBMISSION)

III-2	Applicant and/or inventor	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	SMITH, Joseph, E.
III-2-5	Address	30 Penni Lane N. Andover, MA 01845 United States of America
III-2-6	State of nationality	US
III-2-7	State of residence	US
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	MILLER, Raymond, A.
IV-1-2	Address	Pepper Hamilton LLP One Mellon Center, 50th Floor 500 Grant Street Pittsburgh, 15219 United States of America
IV-1-3	Telephone No.	412.454.5000
IV-1-4	Facsimile No.	412.281.0717
IV-1-5	e-mail	docketingpgh@pepperlaw.com
IV-1-6	Agent's registration No.	42,891
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	22 December 2003 (22.12.2003)
VI-1-2	Number	60/531,666
VI-1-3	Country	US
VI-2	Priority claim of earlier national application	
VI-2-1	Filing date	07 July 2004 (07.07.2004)
VI-2-2	Number	60/586,363
VI-2-3	Country	US

PCT REQUEST

Original (for SUBMISSION)

VI-3	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1, VI-2	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	1	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	2	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	

PCT REQUEST

Original (for SUBMISSION)

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	in relation to this international application MYKROLIS CORPORATION is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i v)		an assignment from DOH, Cha, P. to MYKROLIS CORPORATION, dated 21 December 2004 (21.12.2004)
VIII-2-1(i v)		an assignment from SMITH, Joseph, E. to MYKROLIS CORPORATION, dated 21 December 2004 (21.12.2004)
VIII-2-1(i x)	This declaration is made for the purposes of:	all designations except the designation of the United States of America

PCT REQUEST

Original (for SUBMISSION)

VIII-3-1	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)) Name	in relation to this international application MYKROLIS CORPORATION is entitled to claim priority of earlier application No. 60/531,666 by virtue of the following:
VIII-3-1(i v)		an assignment from DOH, Cha, P. to MYKROLIS CORPORATION, dated 21 December 2004 (21.12.2004)
VIII-3-1(i v)		an assignment from SMITH, Joseph, E. to MYKROLIS CORPORATION, dated 21 December 2004 (21.12.2004)
VIII-3-1(i x)	This declaration is made for the purposes of:	all designations

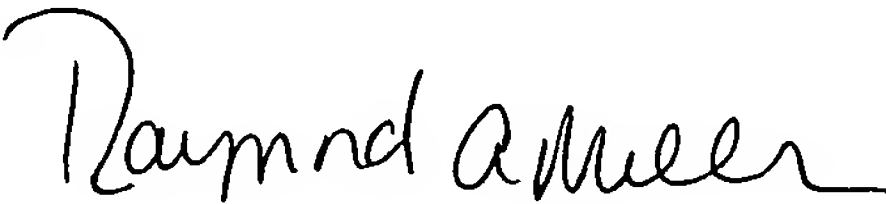
PCT REQUEST

Original (for SUBMISSION)

VIII-3-2	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)) Name	in relation to this international application MYKROLIS CORPORATION is entitled to claim priority of earlier application No. 60/586,363 by virtue of the following:
VIII-3-2(i v)		an assignment from DOH, Cha, P. to MYKROLIS CORPORATION, dated 21 December 2004 (21.12.2004)
VIII-3-2(i v)		an assignment from SMITH, Joseph, E. to MYKROLIS CORPORATION, dated 21 December 2004 (21.12.2004)
VIII-3-2(i x)	This declaration is made for the purposes of:	all designations

PCT REQUEST

Original (for SUBMISSION)

IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	7	✓
IX-2	Description	66	-
IX-3	Claims	5	-
IX-4	Abstract	1	✓
IX-5	Drawings	18	-
IX-7	TOTAL	97	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-17	PCT-SAFE physical media	-	✓
IX-18	other	Postcard Receipt	
IX-18	other	PCT Transmittal	
IX-19	Figure of the drawings which should accompany the abstract	1a	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	 Raymond A. Miller Attorney	
X-1-1	Name		
X-1-2	Name of signatory		
X-1-3	Capacity		

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported International application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
------	--	--

PCT (ANNEX - FEE CALCULATION SHEET)

Original (for SUBMISSION)

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only	
0-1	International Application No.	
0-2	Date stamp of the receiving Office	
0-4	Form PCT/RO/101 (Annex)	
0-4-1	PCT Fee Calculation Sheet Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.163)
0-9	Applicant's or agent's file reference	126457.01802
2	Applicant	MYKROLIS CORPORATION
12	Calculation of prescribed fees	fee amount/multiplier Total amounts (USD)
12-1	Transmittal fee T	⇒ 300
12-2-1	Search fee S	⇒ 1920
12-2-2	International search to be carried out by	EP
12-3	International filing fee (first 30 sheets) i1	1134
12-4	Remaining sheets	67
12-5	Additional amount (X) i2	12
12-6	Total additional amount	804
12-7	i1 + i2 = i	1938
12-12	EASY Filing reduction R	-81
12-13	Total International filing fee (i-R) I	⇒ 1857
12-14	Fee for priority document	
	Number of priority documents requested	2
12-15	Fee per document (X)	20
12-16	Total priority document fee: P	⇒ 40
12-17	TOTAL FEES PAYABLE (T+S+i+P)	⇒ 4117
12-19	Mode of payment	cheque
12-20	Deposit account instructions	
	The receiving Office	United States Patent and Trademark Office (USPTO) (RO/US).
12-20-2	Authorization to charge any deficiency or credit any overpayment in the total fees indicated above	✓
12-21	Deposit account No.	50-0436
12-22	Date	21 December 2004 (21.12.2004)
12-23	Name and signature	MILLER, Raymond, A. <i>Raymond A Miller</i>

REMARKS

PCT (ANNEX - FEE CALCULATION SHEET)

Original (for SUBMISSION)

(This sheet is not part of and does not count as a sheet of the international application)

13-1-1	Applicant Remarks	Inventor Cha P. Doh is a citizen of Taiwan. I was unable to add this information into the Request Form.
--------	-------------------	---

The present invention relates to potting exchange devices including hollow conductive and or hollow porous membranes wherein the housing includes recessed channels or grooves. The recessed channels or grooves are filled by the potting material during the potting process and form a unitary end structure with the potting material. The grooves or channels formed on the inside of the housing maintains the integrity of the potting with the housing under a wide range of mechanical and thermal conditions.

PCT

Original (for SUBMISSION)

13-1-1	Applicant Remarks	Inventor Cha P. Doh is a citizen of Taiwan. I was unable to add this information into the Request Form.
13-2-3	Validation messages Names	Green? Applicant 2:State of Nationality missing
13-2-6	Validation messages Declarations	Green? Manually inputted data. Please verify the contents of the information provided.
	Validation messages Declarations	Green? Manually inputted data. Please verify the contents of the information provided.
	Validation messages Declarations	Green? Manually inputted data. Please verify the contents of the information provided.
13-2-7	Validation messages Contents	Yellow! The power of attorney or a copy of the general power of attorney will need to be furnished unless all applicants sign the request form.
13-2-8	Validation messages Fees	Green? Please confirm that fee schedule utilized is the latest available
13-2-10	Validation messages Annotate	Green? All indications that can be made on the Request form are specifically provided for by the software. Please confirm validity of additional indication.